



# SRP Summer Preparedness 2018



Delivering water and power™

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Director, Supply Trading and Fuels

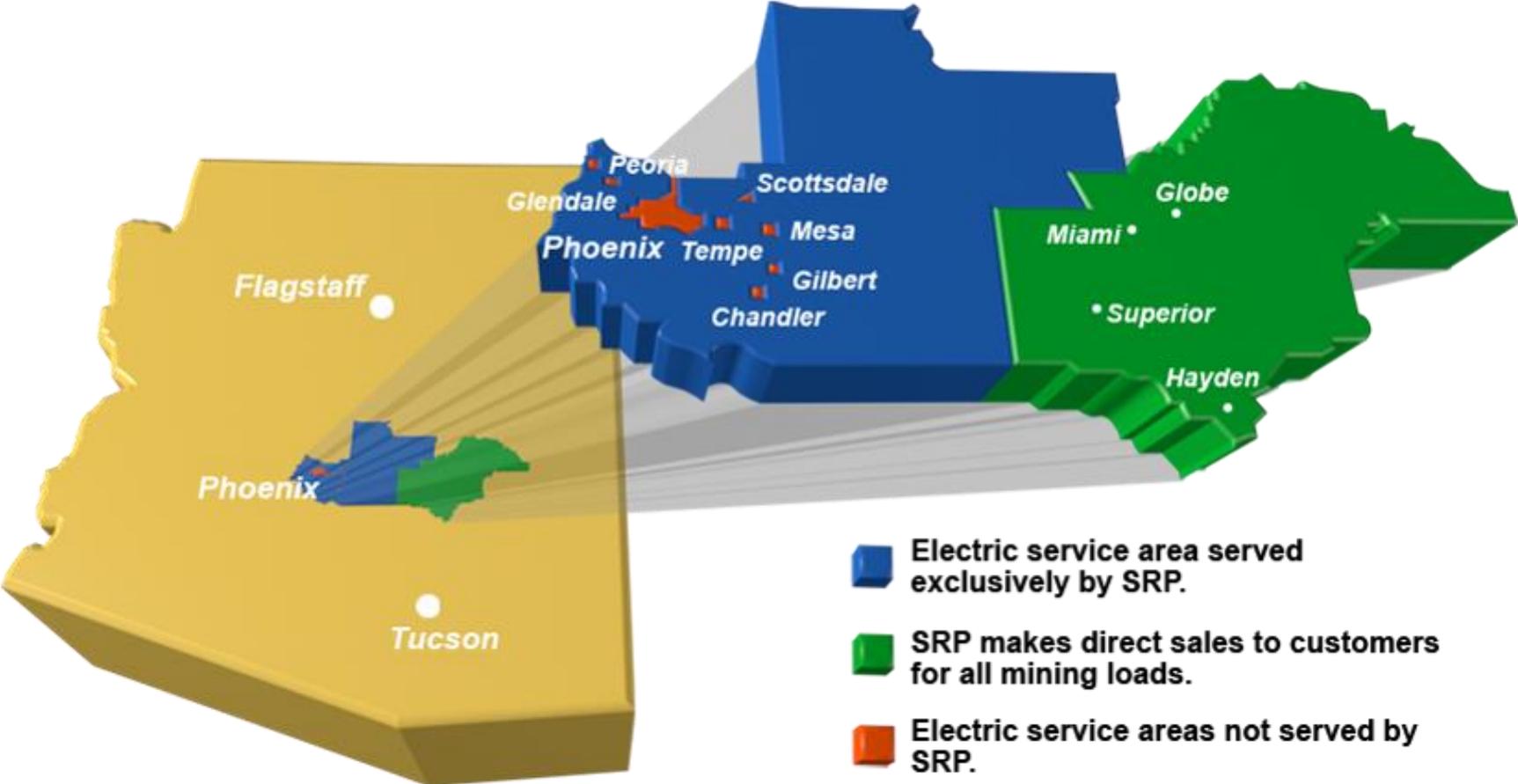


Delivering water and power™

# SRP's Electric System

- Provide electricity to over 1 million power users in a 2,900 square-mile area in parts of 3 counties – Maricopa, Gila, and Pinal
- System Stats:
  - 320 Substations
  - 3,212 Transmission Line Miles
  - 19,974 Distribution Line Miles
  - 48 Generation Units

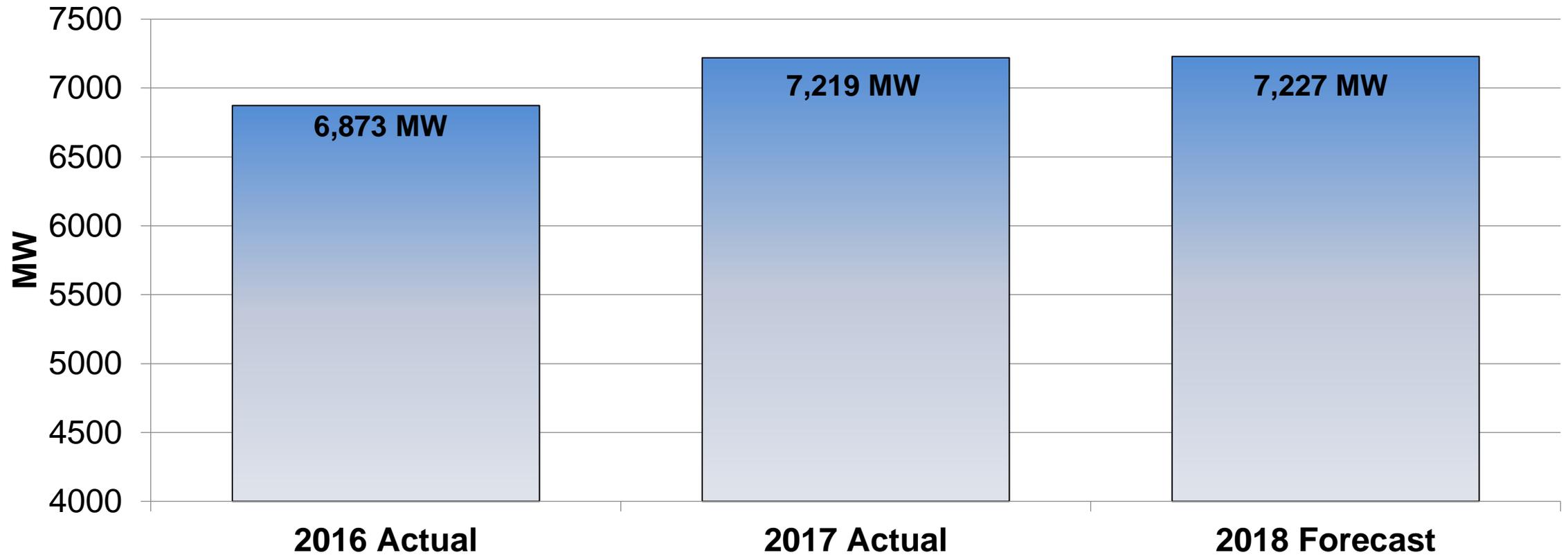
# SRP's Electric Service Area



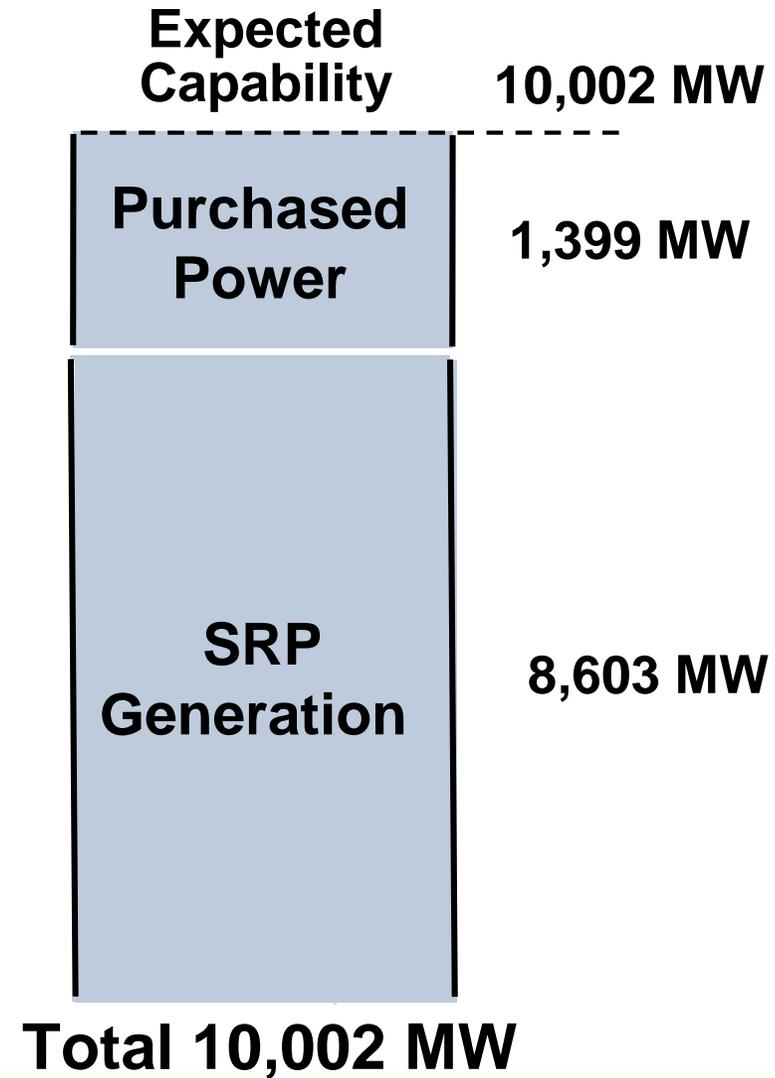
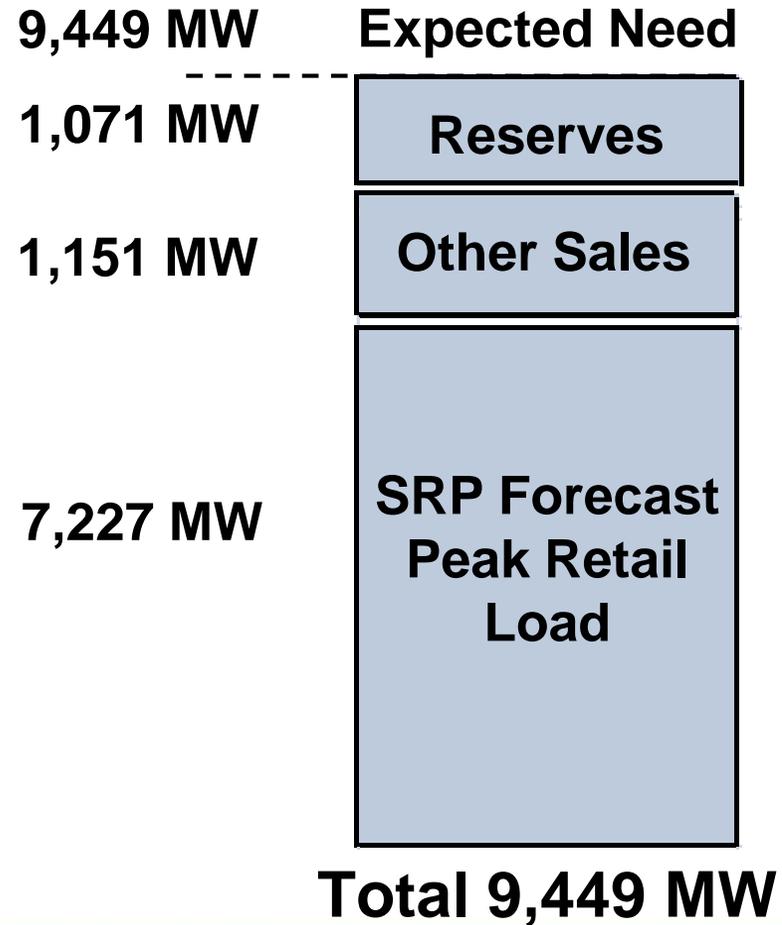
# Summary

- Peak demand is expected to be higher than last year's peak.
- Adequate resources have been secured to meet anticipated demand.

# Peak Retail Load Forecast

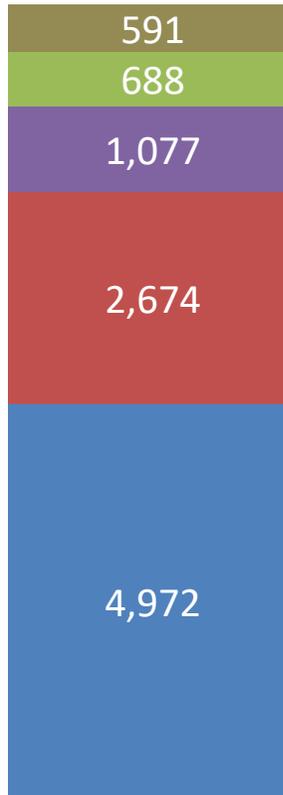


# Summer 2018 Outlook



# SRP 2018 Resources

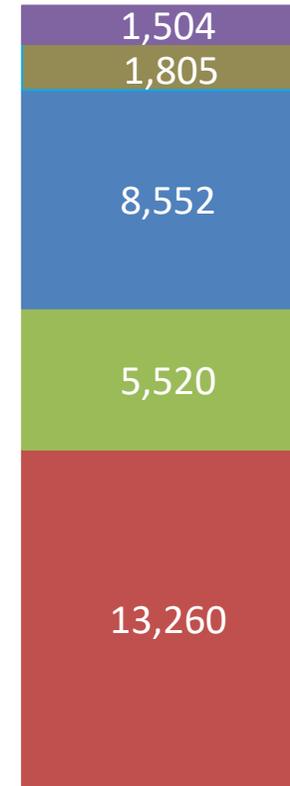
## Capacity (MW)



**Total 10,002 MW**

- Renewable Resources/Purchases
- Gas
- Other Purchases
- Nuclear
- Coal

## Energy (GWh)



**Total 30,641 GWh**

# Purchased Power

- Purchased power portfolio is in place to meet demand.
- In the event of multiple forced unit outages additional purchases may be needed.
- Regional market conditions suggest that there will be sufficient capacity to meet the Arizona demand.

# Fuel Status

- Nuclear
  - Full requirements under contract.
- Coal
  - Full requirements under contract.
  - Inventory at coal plants are at or above target levels.
- Natural Gas
  - Full transportation requirements are under contract with two pipelines, each with access to two gas basins.
  - Current supplies of natural gas are more than sufficient.

# Major Resource Activities for Summer 2018

- Gila River Power Station
  - SRP has agreed to acquire Blocks 1 & 2 (550 MW each)
  - Block 2 tolled to TEP
  - Transaction received FERC approval
- Pinal Central Energy Center (NextEra Energy Resources)
  - 20 MW solar PV with 10 MW/4-hour lithium-ion battery storage
  - Expected to be operational in May 2018



A large blue geometric graphic consisting of overlapping triangles and trapezoids, located in the top-left corner of the slide.

# Steve Cobb

## Director, Transmission and Generation Operations

# Transmission & Distribution Overview

- Transmission and Distribution Systems are prepared for summer operations.
- The system has sufficient capacity to serve forecasted peak demand.

# Transmission Additions & Replacements

## Additions

Transmission Poles	7
Breakers (69 kV – 500 kV)	5

## Replacements

Transmission Poles	420
Breakers (69 kV – 500 kV)	38



# Additional Transmission Improvements

- Replaced 4 transformers as part of Proactive Transformer Replacement Program
- 1 New Distribution Bay and 1 New Distribution Substation to Support Load Growth
- 5 – 69 kV Transformer Protectors for Fault Isolation
- 11 New Sets of Transformer Monitoring Equipment

# System Preparation

Many Ongoing Activities Including:

- Preventative Maintenance
- Emergency Operations Training
- Spare Equipment and Materials
- Vegetation Management
- Wildfire Coordination

# Reliability and Planning

- Inter-Utility Coordination
- Grid Modernization and Asset Optimization
- Grid Performance
- Operational Excellence

# SRP – Outage Information Resources

- Conversational Interactive Voice Response System
  - Customers can easily report an outage with speech recognition or with an agent.
- SRP App and Online
  - Outage reporting and information.
- Proactive Outage Notifications Via Text or Email
  - Approximately 613,000 residential and 19,000 business customers enrolled.
- Business Customer Outage Preparedness
  - Expanded outage workshops for business customers.

